

001

Form 3160-3  
(August 1999)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

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5. Lease Serial No.  
UTU-01031446. If Indian, Allottee or Tribe Name  
N/A7. If Unit or CA Agreement, Name and No.  
N/A8. Lease Name and Well No.  
STIRRUP UNIT 13W-6-8-22

9. API Well No.

43-047-34448

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone2. Name of Operator  
SHENANDOAH ENERGY INC.Contact: JOHN BUSCH  
E-Mail: jbusch@shenandoahenergy.com3a. Address  
11002 E. 17500 S.  
VERNAL, UT 840783b. Phone No. (include area code)  
Ph: 435.781.4341  
Fx: 435.781.432310. Field and Pool, or Exploratory  
WONSITS VALLEY

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SWSW Lot 7 812FSL 617FWL

At proposed prod. zone

4445104 N  
628549 E11. Sec., T., R., M., or Blk. and Survey or Area  
Sec 6 T8S R22E Mer SLB14. Distance in miles and direction from nearest town or post office\*  
8 +/- MILES FROM REDWASH, UTAH12. County or Parish  
UINTAH13. State  
UT15. Distance from proposed location to nearest property or  
lease line, ft. (Also to nearest drig. unit line, if any)  
617' +/-16. No. of Acres in Lease  
316.9017. Spacing Unit dedicated to this well  
40.0018. Distance from proposed location to nearest well, drilling,  
completed, applied for, on this lease, ft.  
25' +/-19. Proposed Depth  
8225 MD  
8225 TVD20. BLM/BIA Bond No. on file  
U-096921. Elevations (Show whether DF, KB, RT, GL, etc.  
5100 KB

22. Approximate date work will start

23. Estimated duration  
10 DAYS

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

John Busch

Name (Printed/Typed)  
JOHN BUSCHDate  
01/14/2002Title  
OPERATIONS

Approved by (Signature)

Title

Name (Printed/Typed)

BRADLEY G. HILL  
RECLAMATION SPECIALIST IIIDate  
02-05-02Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

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JAN 22 2002

DIVISION OF  
OIL, GAS AND MINING

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T8S, R22E, S.L.B.&M.

31

SHENANDOAH ENERGY, INC.

Well location, STIRRUP UNIT #13W-6-8-22, located as shown in the SW 1/4 SW 1/4 of Section 6, T8S, R22E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

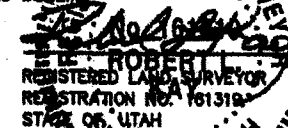
BENCH MARK (45 EAM) LOCATED IN THE N 1/2 OF SECTION 5, T8S, R21E, S.L.B.&M. TAKEN FROM THE BRENNAN BASIN QUADRANGLE, UTAH, UTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4689 FEET.



SCALE

### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REVISED: 1-14-02 C.G.

UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 300 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-29-01	DATE DRAWN: 10-31-01
PARTY D.A. J.A. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE SHENANDOAH ENERGY, INC.	

T7S  
T8S (6.69)

EAST - 86.69 (G.L.O.)

78.20 (G.L.O.)

(8.49)

N00°53'W - 40.95 (G.L.O.)

N00°35'54"W - 2674.41' (Meas.)

Lot 4

Lot 3

Lot 2

Lot 1

Lot 5

Brass Cap

6

Lot 6

STIRRUP UNIT #13W-6-8-22  
Elev. Ungraded Ground = 5093'

Lot 7

Brass Cap

Brass Cap

Brass Cap

N89°47'21"W - 2606.40' (Meas.)

N89°49'05"W - 2642.14' (Meas.)

R  
21  
E

R  
22  
E

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LATITUDE = 40°08'54"  
LONGITUDE = 109°29'26"

BASIS OF BEARINGS IS THE EAST LINE OF THE NE 1/4 SECTION 13, T8S, R21E, S.L.B.&M. WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR N0°49'W.

**Additional Operator Remarks:**

Shenandoah Energy Inc. proposes to drill a well to 8225' to test the Wasatch. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 and 24 East.

See Onshore Order No. 1 attached

Please be advised that Shenandoah Energy Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No. U-0969. The principal is Shenandoah Energy Inc. via surety as consent as provided for the 43 CFR 3104.2.

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# SHENANDOAH ENERGY, INC.

## STIRRUP UNIT #13W-6-8-22

LOCATED IN UTAH COUNTY, UTAH

SECTION 6, T8S, R22E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY

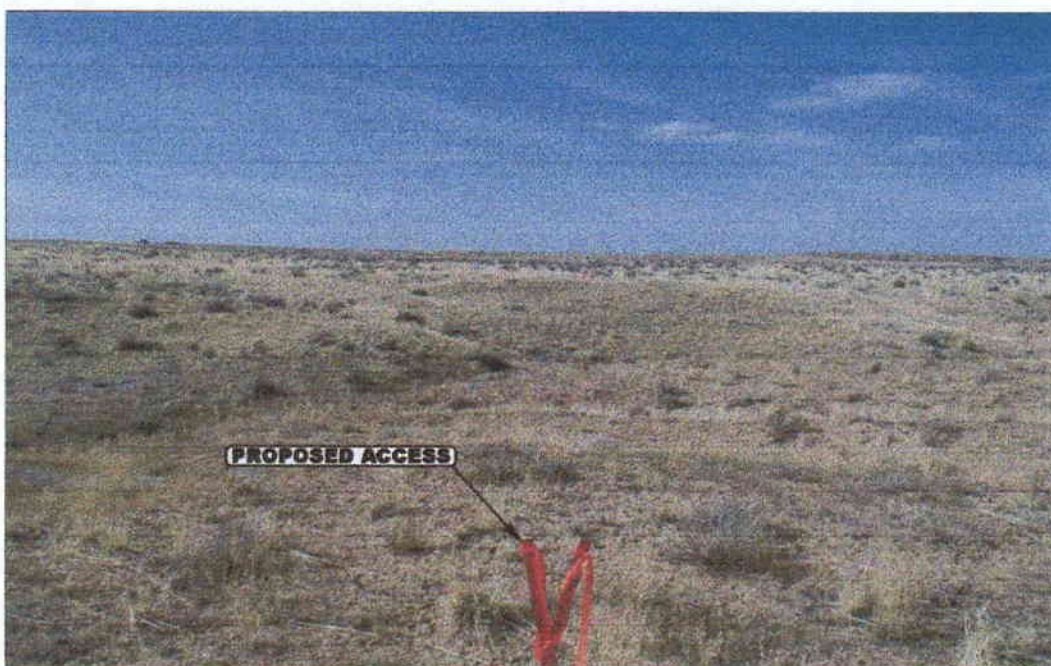


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

11 1 01  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.A. DRAWN BY: K.G. REV: 1-14-02 P.M.

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SHENANDOAH ENERGY INC.  
SU 13W-6-8-22

ONSHORE OIL & GAS ORDER NO. 1  
Approval of Operations on Onshore  
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<i>Formation</i>	<i>Depth</i>	<i>Prod. Phase Anticipated</i>
Uinta	Surface	
Green River	3105	
Mahogany Ledge	3905	
Mesa	6525	
TD (Wasatch)	8225	

2. Anticipated Depths of Oil, Gas, Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<i>Substance</i>	<i>Formation</i>	<i>Depth</i>
Oil/Gas	Wasatch	8225

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

3. Anticipated Bottom Hole Pressures

Maximum anticipated bottom hole pressure equals approximately 3290.0 psi.

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SHENANDOAH ENERGY INC.  
STIRRUP UNIT 13W-6-8-22  
812' FSL, 617' FWL  
SWSW, Section 6, T8S, R22E  
UINTAH COUNTY, UTAH  
LEASE # UTU-0103144

ONSHORE ORDER NO. 1

MULTI - POINT SURFACE USE & OPERATIONS PLAN

An onsite inspection was conducted for the SU 13W-6-8-22 on January 3, 2002 at approximately 11:45 AM. Weather conditions were sunny with a temperature of 40 degrees at the time of the onsite. In attendance at the inspection were the following individuals:

Byron Tolman	Bureau of Land Management
Dixie Sadlier	Bureau of Land Management
Paul Bueller	Bureau of Land Management
Miles Henberg	State of Utah
Raleen Searle	Shenandoah Energy Inc.

1. Existing Roads:

The proposed well site is approximately 9 miles southwest of Red Wash, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 - mile radius.

There will be no improvements made to existing access roads.

2. Planned Access Roads:

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Refer to Topo Map B for the location of the proposed access road.

3. Location of Existing Wells Within a 1 - Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Refer to Topo Map D for the location of the proposed pipeline.

5. Location and Type of Water Supply:

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

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6. **Source of Construction Materials:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

7. **Methods of Handling Waste Materials:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

8. **Ancillary Facilities:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A pit liner will be required.

10. **Plans for Reclamation of the Surface:**

Please see Shenandoah energy Inc. Standard Operating Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Township 07 and 08 South, Ranges 21 to 24 East.

Seed mix #4 for the well location and #5 for the access road.

11. **Surface Ownership:**

The well pad and access road are located on lands owned by:

Bureau of Land Management  
170 South 500 East  
Vernal, Utah 84078  
(435) 781-4400

12. **Other Information**

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted directly to the appropriate agencies by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

Place a subsurface plat where PA marker is located. Dirt Contractors please contact Byron Tolman.

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**Lessee's or Operator's Representative:**

**SEI**

John Busch  
Red Wash Operations Rep.  
Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, Utah 84078  
(435) 781-4341

**Certification:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Shenandoah Energy Inc. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

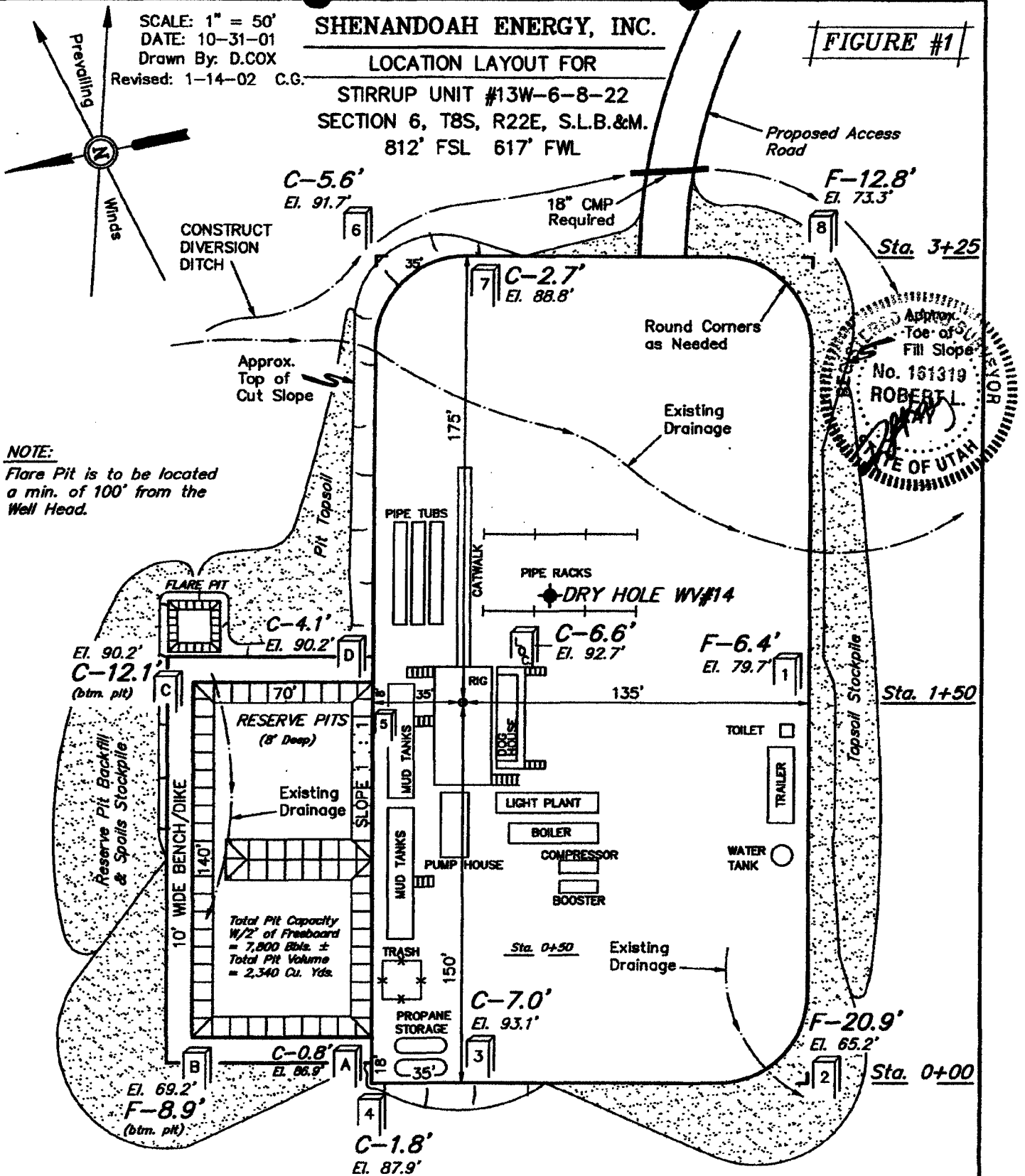
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Shenandoah Energy Inc. its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

John Busch  
John Busch  
Red Wash Operations Representative

JAN 14-02  
Date

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**NOTES:**

Elev. Ungraded Ground At Loc. Stake = 5092.7'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5086.1'

UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East • Vernal, Utah 84078 • (435) 789-1077

**CONFIDENTIAL**

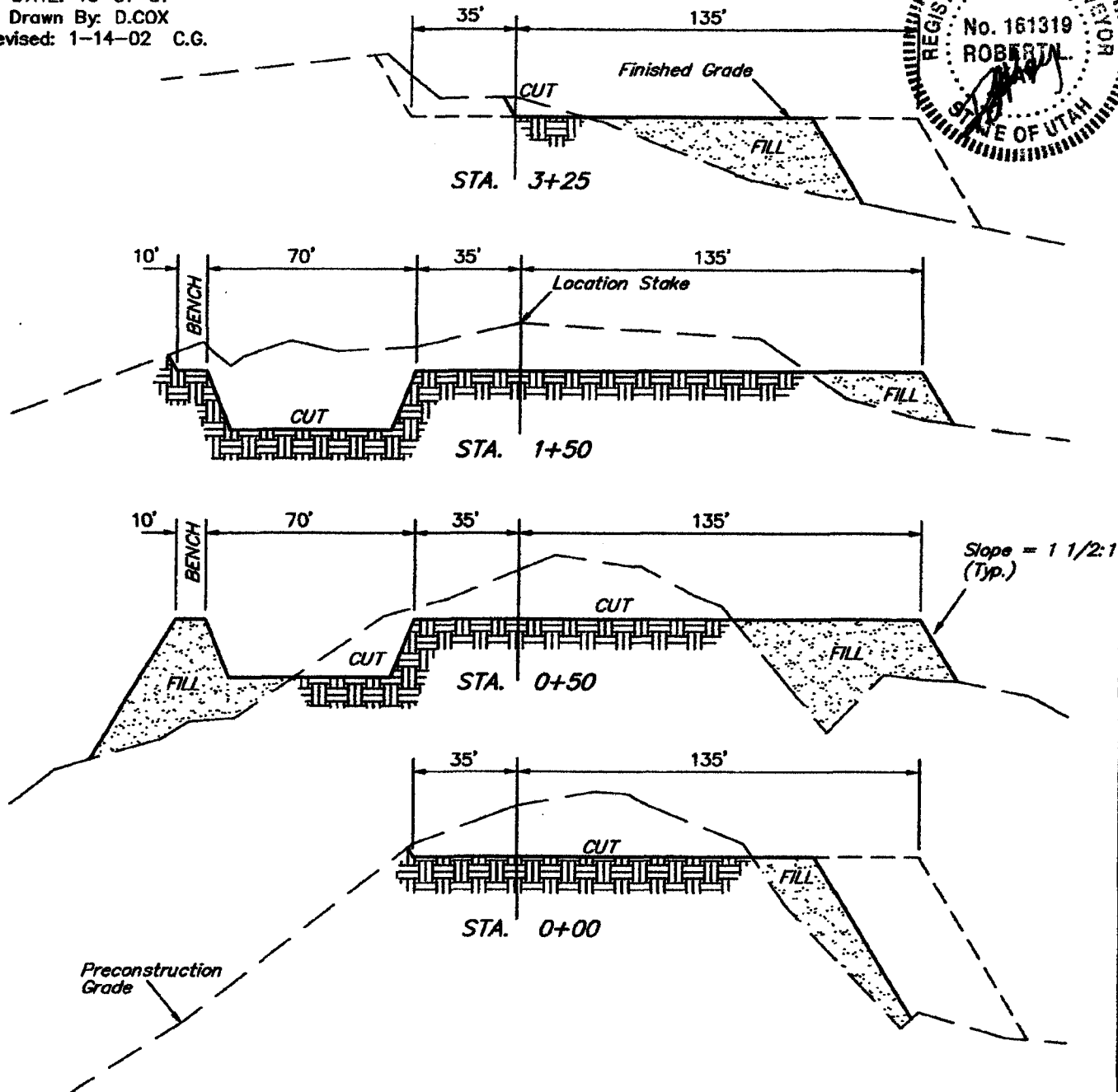
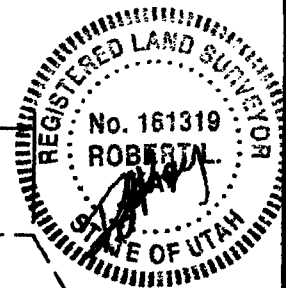
# SHENANDOAH ENERGY, INC.

## TYPICAL CROSS SECTIONS FOR

STIRRUP UNIT #13W-6-8-22  
SECTION 6, T8S, R22E, S.L.B.&M.  
812' FSL 617' FWL

FIGURE #2

1" = 20'  
X-Section  
Scale  
1" = 50'  
DATE: 10-31-01  
Drawn By: D.COX  
Revised: 1-14-02 C.G.



### APPROXIMATE YARDAGES

CUT  
(6") Topsoil Stripping = 1,260 Cu. Yds.  
Remaining Location = 9,010 Cu. Yds.  
TOTAL CUT = 10,270 CU.YDS.  
FILL = 7,450 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 2,430 Cu. Yds.  
Topsoil & Pit Backfill = 2,430 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

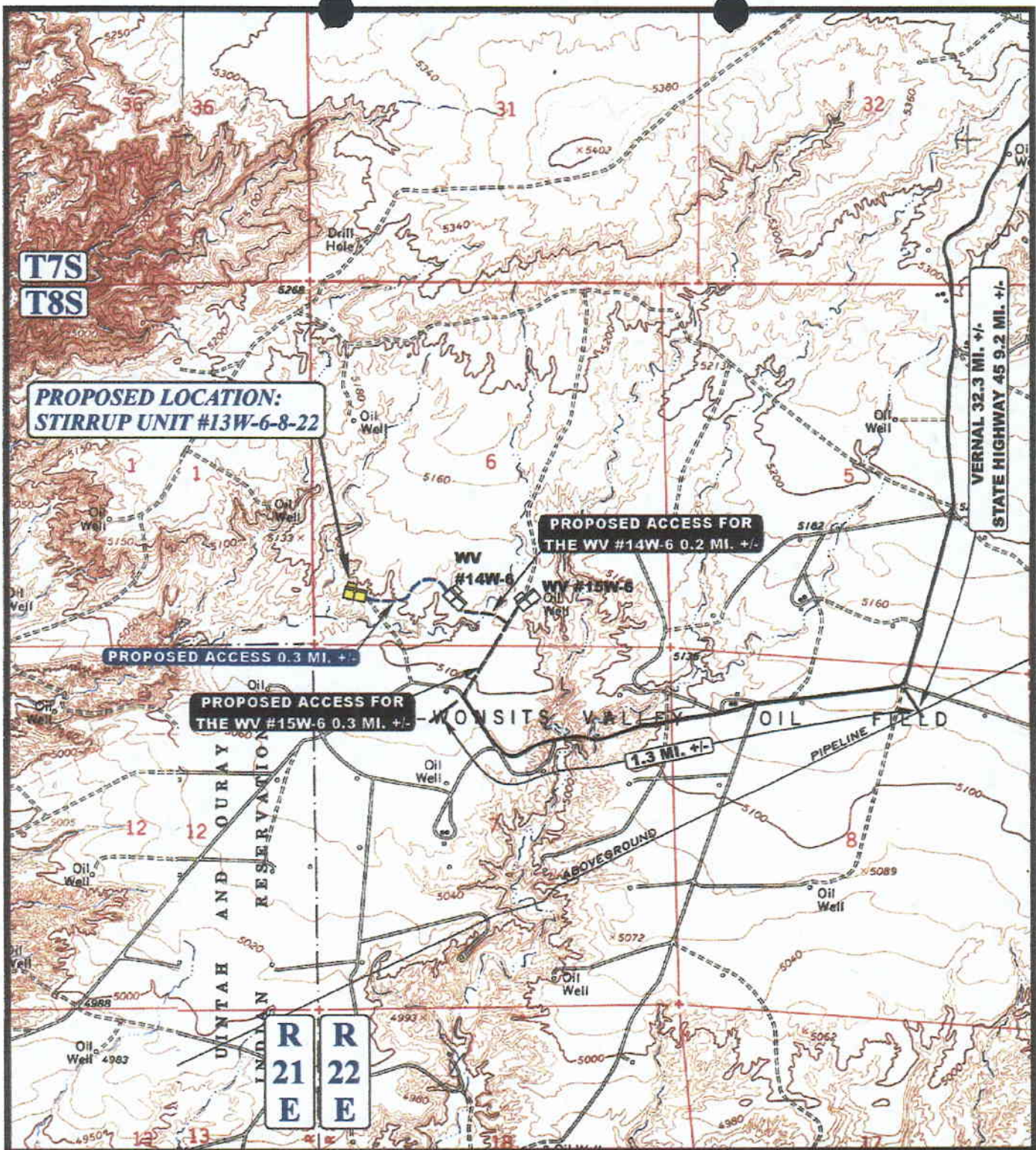
UINTAH ENGINEERING & LAND SURVEYING  
86 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

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# **LEGEND:**

----- PROPOSED ACCESS ROAD  
 ----- EXISTING ROAD

**SHENANDOAH ENERGY, INC.**

**STIRRUP UNIT #13W-6-8-22**  
**SECTION 6, T8S, R22E, S.L.B.&M.**  
**812' FSL 617' FWL**

**U  
E  
S**

**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC  
 MAP**

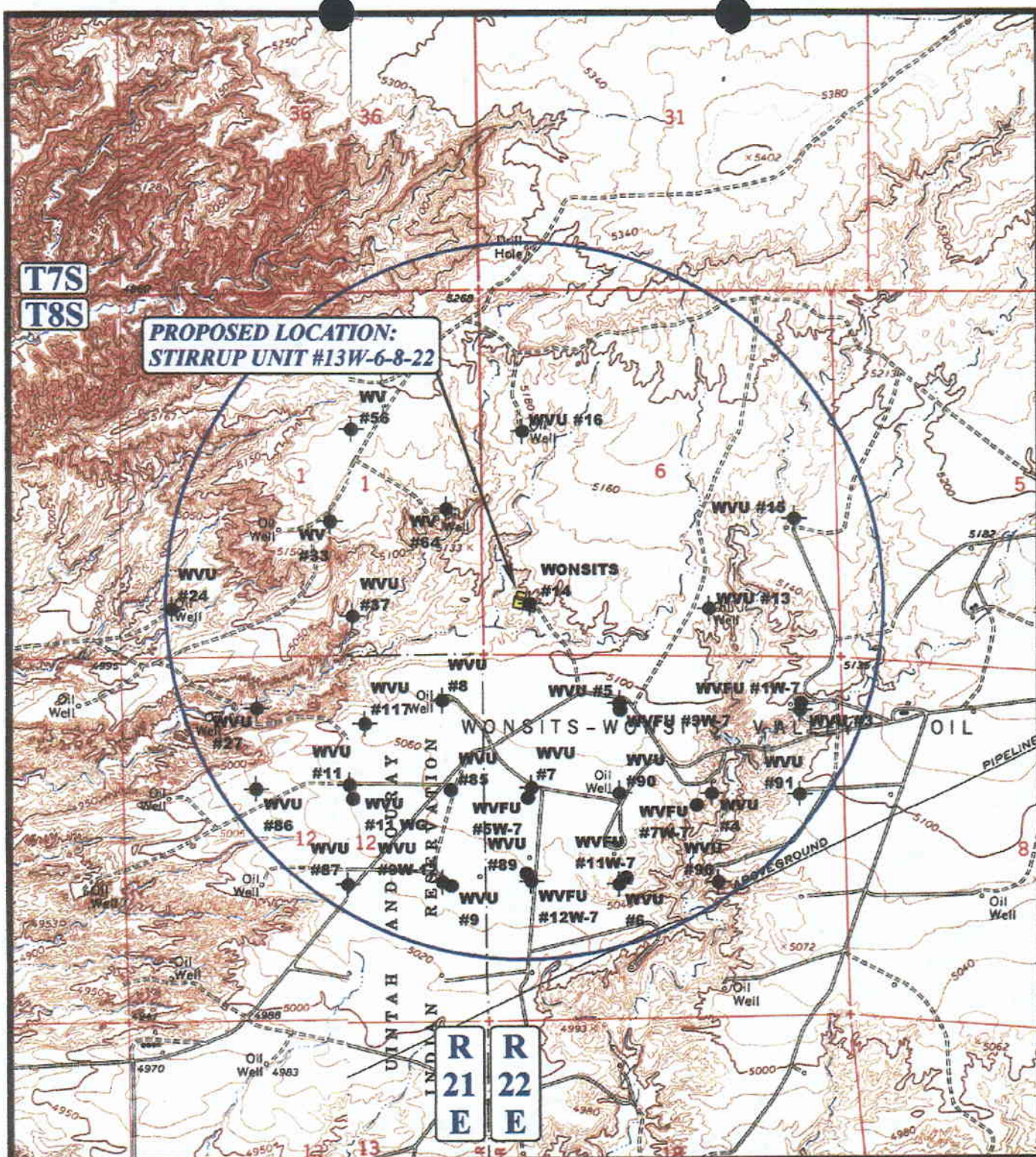
**11 1 01**  
 MONTH DAY YEAR

SCALE: 1"=2000' DRAWN BY: K.G. REV: 1-14-02 P.M.

**B  
 TOPO**

**CONFIDENTIAL**





# LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



## SHENANDOAH ENERGY, INC.

STIRRUP UNIT #13W-6-8-22  
SECTION 6, T8S, R22E, S.L.B.&M.  
812' FSL 617' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

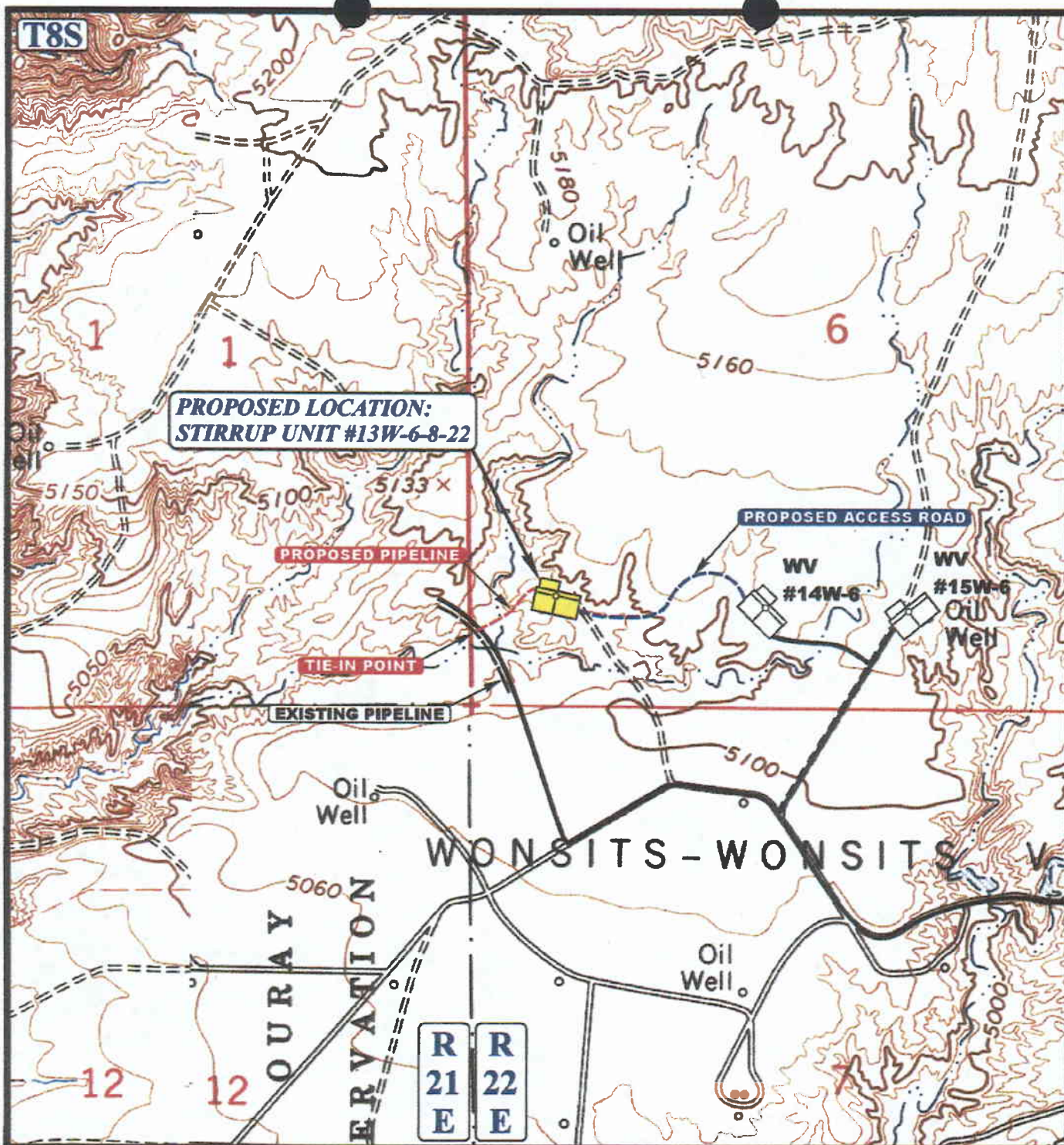
11 1 01  
MONTH DAY YEAR

SCALE: 1"=2000' DRAWN BY: K.G. REV: 1-14-02 P.M.



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**APPROXIMATE TOTAL PIPELINE DISTANCE = 600' +/-**

**LEGEND:**

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS



**SHENANDOAH ENERGY, INC.**

**STIRRUP UNIT #13W-6-8-22**  
**SECTION 6, T8S, R22E, S.L.B.&M.**  
**812' FSL 617' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**11 1 01**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: K.G. REV: 1-14-02 P.M.



**CONFIDENTIAL**

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 01/22/2002

API NO. ASSIGNED: 43-047-34448

WELL NAME: STIRRUP U 13W-6-8-22

OPERATOR: SHENANDOAH ENERGY INC ( N4235 )

CONTACT: JOHN BUSCH

PHONE NUMBER: 435-781-4341

PROPOSED LOCATION:

SWSW 06 080S 220E

SURFACE: 0812 FSL 0617 FWL

BOTTOM: 0812 FSL 0617 FWL

UINTAH

WONSITS VALLEY ( 710 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0103144

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSTC

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. U-0969 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)

LOCATION AND SITING:

☒ R649-2-3. Unit  
☒ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☐ R649-3-3. Exception  
☐ Drilling Unit  
Board Cause No:  
Eff Date:  
Siting:  
☐ R649-3-11. Directional Drill

COMMENTS: WV Field SOP, separate file.

STIPULATIONS: 1-Fed. Approval  
2-Spacing Stip.



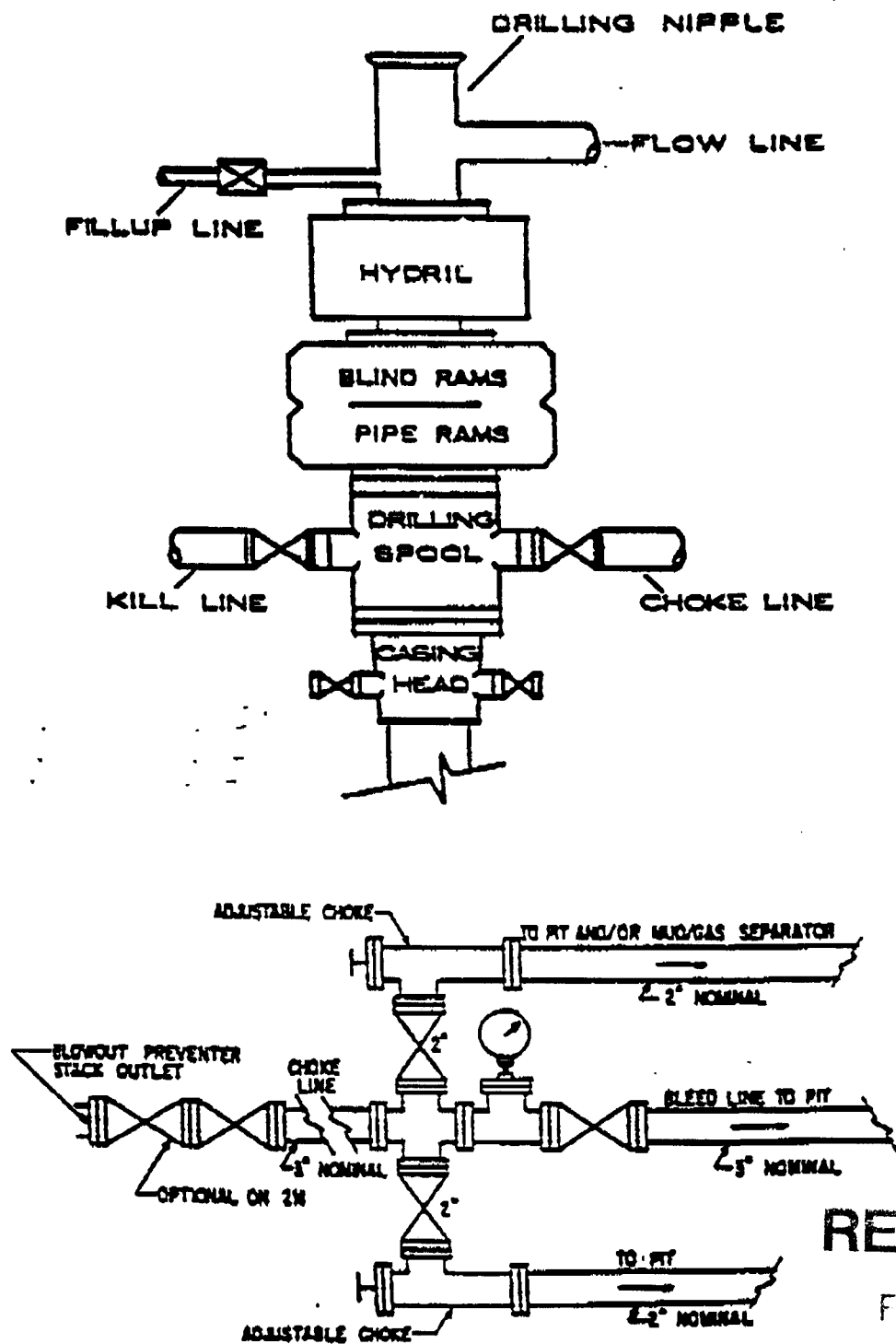


COUNTY: UINTAH



## Drilling Program

## SCHEMATIC DIAGRAM OF 3,000 PSI BOP STACK



RECEIVED

FEB 04 2002

DIVISION OF  
OIL, GAS AND MINING

003



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

February 5, 2002

Shenandoah Energy Inc.

11002 E 17500 S

Vernal UT 84078

Re: Stirrup Unit 13W-6-8-22 Well, 812' FSL, 617' FWL, SW SW, Sec. 6, T. 8 South,  
R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-34448.

Sincerely,

A handwritten signature in dark ink, appearing to read 'John R. Baza', written over a horizontal line.

John R. Baza  
Associate Director

er

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Shenandoah Energy Inc.  
**Well Name & Number** Stirrup Unit 13W-6-8-22  
**API Number:** 43-047-34448  
**Lease:** UTU-0103144

**Location:** SW SW      **Sec.** 6      **T.** 8 South      **R.** 22 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 16 2002

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		<b>CONFIDENTIAL</b>		5. Lease Serial No. UTU-0103144
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone				6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator SHENANDOAH ENERGY INC.		Contact: JOHN BUSCH E-Mail: jbusch@shenandoahenergy.com		7. If Unit or CA Agreement, Name and No. N/A
3a. Address 11002 E. 17500 S. VERNAL, UT 84078		3b. Phone No. (include area code) Ph: 435.781.4341 Fx: 435.781.4323		8. Lease Name and Well No. STIRRUP UNIT 13W-6-8-22
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWSW Lot 7 812FSL 617FWL At proposed prod. zone				9. API Well No.
14. Distance in miles and direction from nearest town or post office* 8 +/- MILES FROM REDWASH, UTAH				10. Field and Pool, or Exploratory WONSITS VALLEY
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 617' +/-		16. No. of Acres in Lease 316.90		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T8S R22E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 25' +/-		19. Proposed Depth 8225 MD 8225 TVD		12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5100 KB		22. Approximate date work will start		13. State UT
		23. Estimated duration 10 DAYS		17. Spacing Unit dedicated to this well 40.00
		20. BLM/BIA Bond No. on file U-0969		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>John Busch</i>	Name (Printed/Typed) JOHN BUSCH	Date 01/14/2002
------------------------------------	------------------------------------	--------------------

Title OPERATIONS		
Approved by (Signature) <i>Howard B. Cleavage</i>	Name (Printed/Typed)	Date 02/27/2002
Title Assistant Field Manager	Office	
Mineral Resources		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED  
RECEIVED

MAR 01 2002

DIVISION OF  
OIL, GAS AND MINING

CONFIDENTIAL

DOGMA

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Shenandoah Energy Inc.

Well Name & Number: STIRRUP UNIT #13W-6-8-22

API Number: 43-047-34448

Lease Number: U - 0103144

Location: LOT 7 (SWSW) Sec. 06 T. 8S R. 22E

Agreement: N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

**CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**A. DRILLING PROGRAM**

**1. Casing Program and Auxiliary Equipment**

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at  $\pm 3,086$  ft.

**CONDITIONS OF APPROVAL**  
**FOR THE SURFACE USE PROGRAM OF THE**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Shenandoah Energy Inc.

API Number 43-047-34448

Well Name & Number: 13W-6-8-22

Lease Number: U-0103144

Location: SWSW Sec. 6, T.8S. R.22 E.

Surface Ownership: BLM

Date NOS Received: 11-8-01

Date APD Received: 1-16-02

-No construction or drilling from March 1 to July 15 during Ferruginous Hawk nesting season.

-A dam will be constructed along the access road which the road would cross. Top of the dam would need to be at least 18 feet wide. A 24 inch culvert would be installed for the spill way. The dirt contractor shall contact either Paul Buhler or Byron Tolman at the Vernal Field office (435-781-4475 or 435-781-4482) prior to construction.

-A diversion dam will be constructed at the beginning of the diversion ditch.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

005

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

5. Lease Serial No.  
UTU-0103144

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
STIRRUP UNIT 13W-6-8-22

9. API Well No.  
43-047-34448

10. Field and Pool, or Exploratory  
WONSITS VALLEY

11. County or Parish, and State  
UINTAH COUNTY, UT

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
SHENANDOAH ENERGY INC.

Contact: RALEEN SEARLE  
E-Mail: raleen.searle@questar.com

3a. Address  
11002 EAST 17500 SOUTH  
VERNAL, UT 84078

3b. Phone No. (include area code)  
Ph: 435.781.4309  
Fx: 435.781.4329

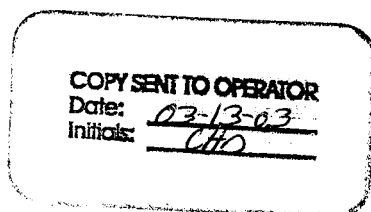
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 6 T8S R22E SWSW 812FSL 617FWL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Shenandoah Energy Inc. hereby requests an one year extenstension on the APD for the SU 13W-6-8-22.



Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: 03-12-03  
By: [Signature]

RECEIVED  
MAR 11 2003  
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #19290 verified by the BLM Well Information System  
For SHENANDOAH ENERGY INC., sent to the Vernal

Name (Printed/Typed) RALEEN SEARLE

Title REGULATORY AFFAIRS ANALYST

Signature

[Signature: Raleen Searle]

Date 03/06/2003

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

006

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**5. Lease Serial No.  
UTU0103144

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.  
WONSITS VALLEY 13W-6-8-222. Name of Operator  
SHENANDOAH ENERGY INCContact: RALEEN SEARLE  
E-Mail: raleen.searle@questar.com9. API Well No.  
43-047-34448-00-X13a. Address  
11002 EAST 17500 SOUTH  
VERNAL, UT 84078-85263b. Phone No. (include area code)  
Ph: 435.781.4309  
Fx: 435.781.432910. Field and Pool, or Exploratory  
WONSITS VALLEY

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 6 T8S R22E Lot 7 812FSL 617FWL

11. County or Parish, and State  
UINTAH COUNTY, UT

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Shenandoah Energy Inc. hereby requests an one year extenstension on the APD for the SU 13W-6-8-22.

RECEIVED

MAR 13 2003

email

DIV. OF OIL, GAS &amp; MINING

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #19290 verified by the BLM Well Information System  
For SHENANDOAH ENERGY INC, sent to the Vernal  
Committed to AFMS for processing by LESLIE WALKER on 03/10/2003 (03LW1131SE)

Name (Printed/Typed) RALEEN SEARLE

Title REGULATORY AFFAIRS ANALYST

Signature (Electronic Submission)

Date 03/06/2003

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By KIRK FLEETWOOD

Title PETROLEUM ENGINEER

Date 03/12/2003

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Vernal

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\*

## Revisions to Operator-Submitted EC Data for Sundry Notice #19290

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	OTHER NOI	APDCH NOI
Lease:	UTU-0103144	UTU0103144
Agreement:		
Operator:	SHENANDOAH ENERGY INC. 11002 EAST 17500 SOUTH VERNAL, UT 84078 Ph: 435.781.4309 Fx: 435.781.4323	SHENANDOAH ENERGY INC 11002 EAST 17500 SOUTH VERNAL, UT 84078-8526 Ph: 435.781.4300 Fx: 435.781.4329
Admin Contact:	RALEEN SEARLE REGULATORY AFFAIRS ANALYST E-Mail: raleen.searle@questar.com  Ph: 435.781.4309 Fx: 435.781.4329	RALEEN SEARLE REGULATORY AFFAIRS ANALYST E-Mail: raleen.searle@questar.com  Ph: 435.781.4309 Fx: 435.781.4329
Tech Contact:		
Location:		
State:	UT	UT
County:	UINTAH	UINTAH
Field/Pool:	WONSITS VALLEY	WONSITS VALLEY
Well/Facility:	STIRRUP UNIT 13W-6-8-22 Sec 6 T8S R22E SWSW 812FSL 617FWL	WONSITS VALLEY 13W-6-8-22 Sec 6 T8S R22E Lot 7 812FSL 617FWL

Shenandoah Energy Inc.  
APD Extension

Well: WV 13W-6-8-22

Location: SWSW Sec. 6, T8S, R22E

Lease: U-0103144

**Conditions of Approval**

An extension for the referenced APD is granted with the following condition(s):

1. The extension will expire 2/27/04
2. No other extensions beyond that time frame will be granted or allowed.

If you have any other questions concerning this matter, please contact Kirk Fleetwood at (435) 781-4486.



## United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078-2799

Phone: (435) 781-4400  
Fax: (435) 781-4410

IN REPLY REFER TO:  
3160  
UT08300

June 2, 2003

Raleen Searle  
Shenandoah Energy Inc.  
11002 East 175000 South  
Vernal, Utah 84078

Re: Wells 9W-6-8-22, 11W-6-8-22,  
13W-6-8-22, 14W-6-8-22  
S2, Sec. 6, T8S, R22E  
Uintah County, Utah  
Lease No. U-0103144

Dear Raleen:

The Applications for Permit to Drill (APDs) the above referenced wells have been rescinded as per your request. If you intend to drill at this location at a future date, a new APD must be submitted.

No drilling activity at these locations has been reported to this office. Therefore, approval to drill the wells is hereby rescinded, effective June 2, 2003.

If you have any questions concerning APD processing, please contact me at (435) 781-4497.

Sincerely,

*Leslie Walker*  
Leslie Walker  
Legal Instruments Examiner

cc: UDOGM – Diana Mason

RECEIVED

JUN 11 2003

U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

June 18, 2003

Raleen Searle  
Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, Utah 84078

Re: APD Rescinded – Stirrup Unit 13W-6-8-22, Sec. 6, T.8S, R.22E – Uintah County,  
Utah, API No. 43-047-34448

Dear Ms. Searle:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on February 5, 2002. On March 12, 2003, the Division granted a one-year APD extension. On June 11, 2003 the Division received a letter from the Bureau of Land Management (BLM), which states that the permit filed with the BLM was being returned unapproved as per your request. I contacted you at that time and you requested that the APD filed with the Division be rescinded. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective June 11, 2003, as requested.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Diana Mason'.

Diana Mason  
Engineering Technician

cc: Well File  
Bureau of Land Management, Vernal